

HEIDI-D

~10° diffused spot beam

SPECIFICATION:

Dimensions	Ø 21.6 mm
Height	11.9 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

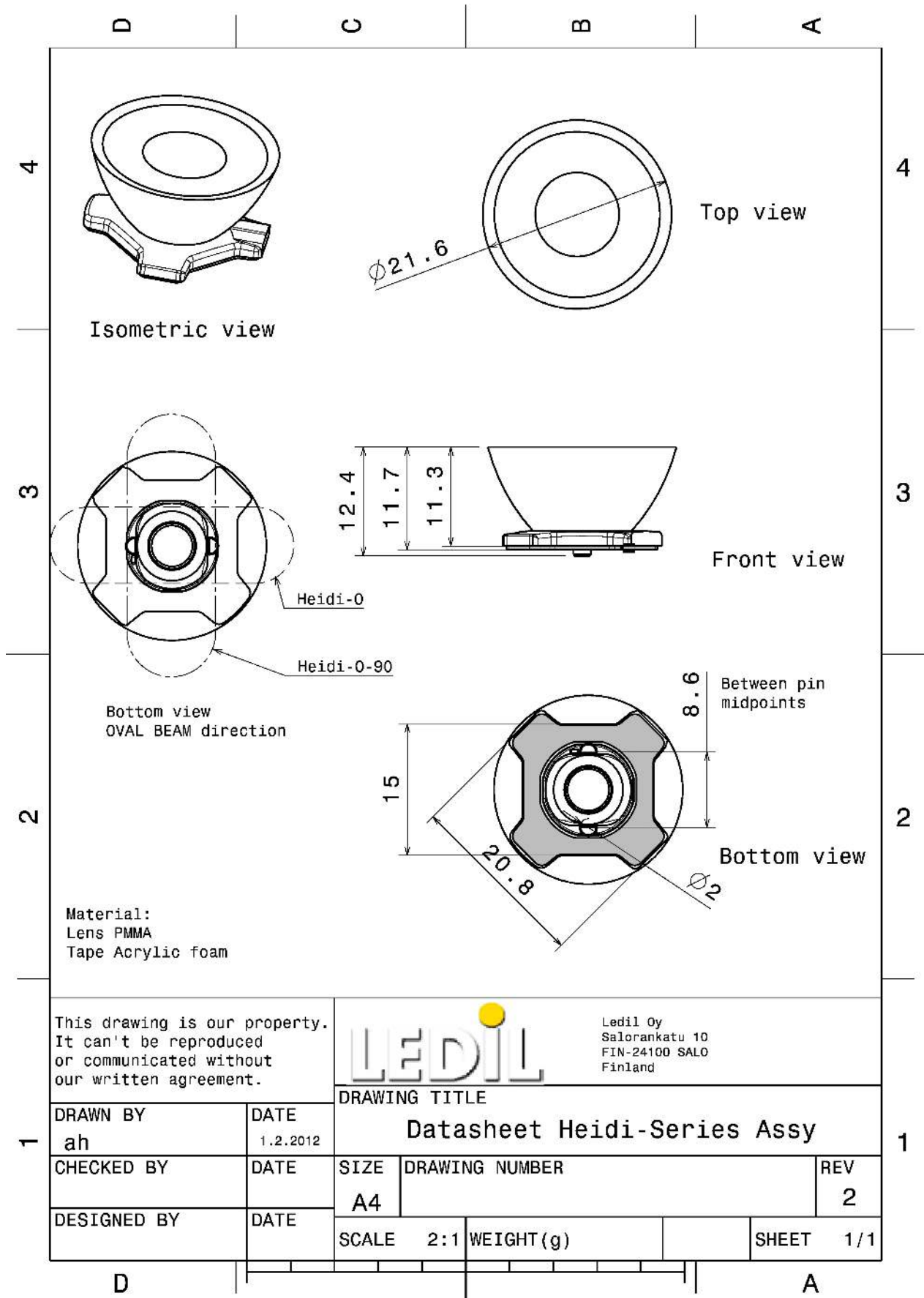
MATERIALS:

Component	Type	Material	Colour	Finish
HEIDI-D	Single lens	PMMA	clear	
HEIDI-TAPE	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11264_HEIDI-D	Single lens	3264	204	204	10.6
» Box size: 480 x 280 x 300 mm					





See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

CREE → LED

LED XB-D
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 90 %
 Peak intensity 12.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

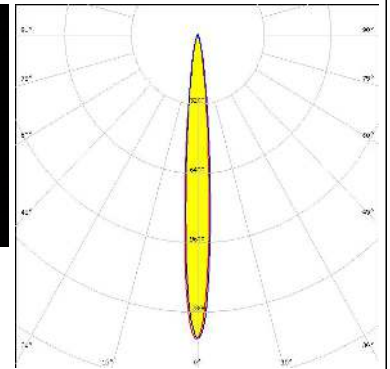
CREE → LED

LED XB-H
 FWHM / FWTM 11.0° / 25.0°
 Efficiency 87 %
 Peak intensity 12.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE → LED


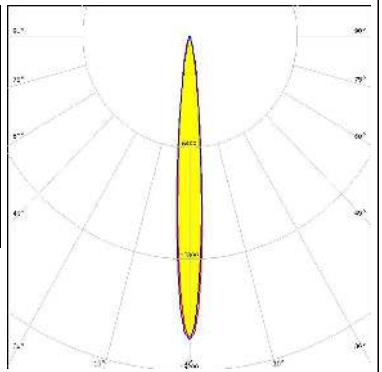

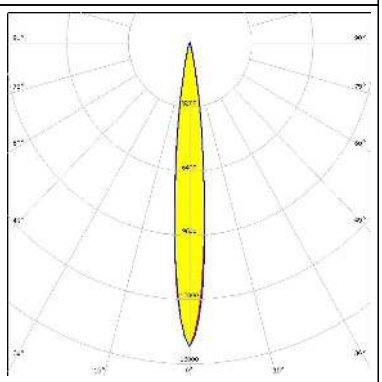

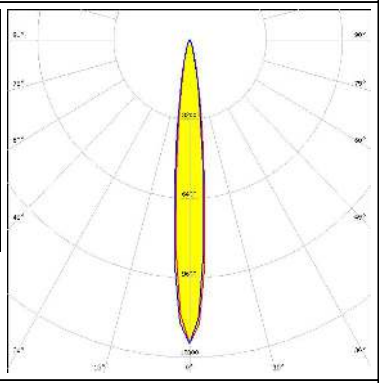

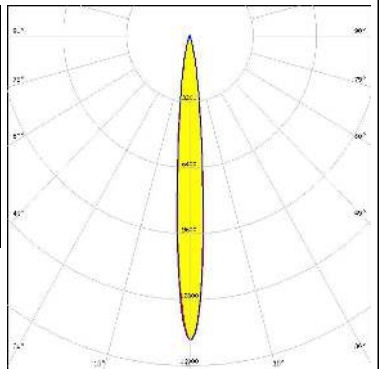
LED XD16
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 93 %
 Peak intensity 14.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE → LED

LED XP-E
 FWHM / FWTM 9.0° / 18.0°
 Efficiency 93 %
 Peak intensity 22 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

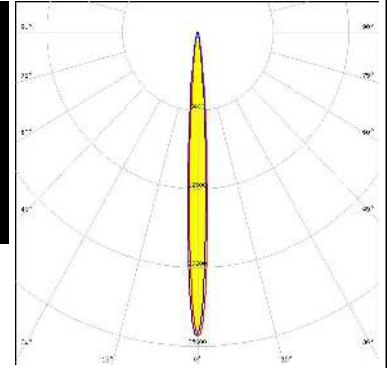
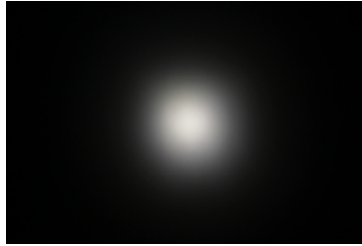
OPTICAL RESULTS (MEASURED):

<p>CREE ⇄ LED</p> <p>LED: XP-E2 FWHM / FWTM: 10.0° / 23.0° Efficiency: 88 % Peak intensity: 17.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>CREE ⇄ LED</p> <p>LED: XP-G FWHM / FWTM: 12.0° / 23.0° Efficiency: 93 % Peak intensity: 14.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>CREE ⇄ LED</p> <p>LED: XP-G2 FWHM / FWTM: 11.0° / 24.0° Efficiency: 88 % Peak intensity: 15 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>CREE ⇄ LED</p> <p>LED: XQ-E HD FWHM / FWTM: 10.0° / 24.0° Efficiency: 94 % Peak intensity: 14.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		

OPTICAL RESULTS (MEASURED):

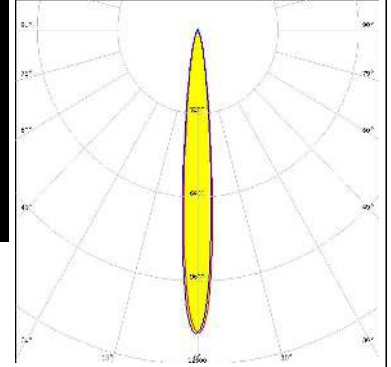
CREE LED

LED XQ-E HI
 FWHM / FWTM 7.0° / 17.0°
 Efficiency 93 %
 Peak intensity 24.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



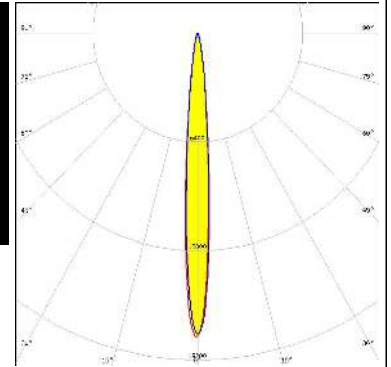
CREE LED

LED XT-E
 FWHM / FWTM 11.0° / 26.0°
 Efficiency 94 %
 Peak intensity 11.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



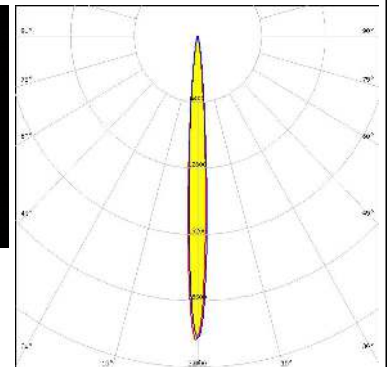
LUMILEDS

LED LUXEON C
 FWHM / FWTM 9.0° / 21.0°
 Efficiency 89 %
 Peak intensity 17.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

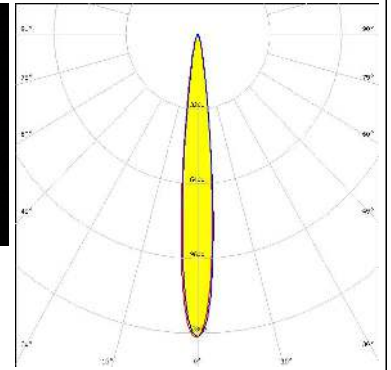
LED LUXEON CZ
 FWHM / FWTM 7.0° / 16.0°
 Efficiency 94 %
 Peak intensity 29 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

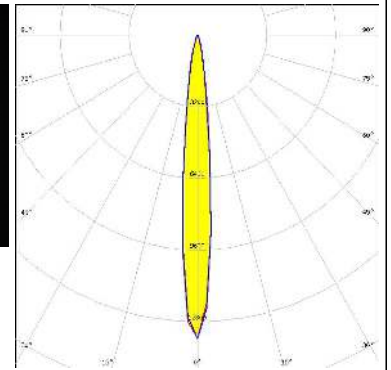
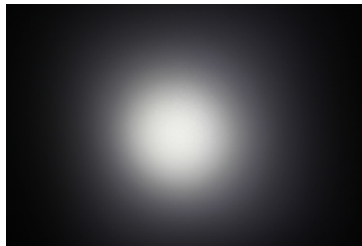
LUMILEDS

LED LUXEON T
FWHM / FWTM 12.0° / 25.0°
Efficiency 89 %
Peak intensity 11.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

LED LUXEON TX
FWHM / FWTM 12.0° / 25.0°
Efficiency 88 %
Peak intensity 13.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



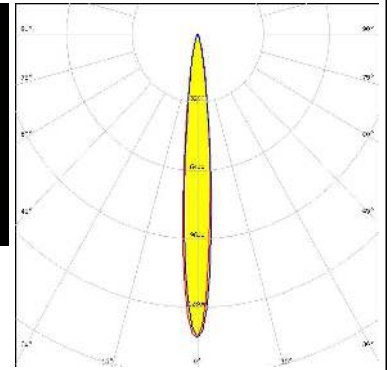
NICHIA

LED NCSxx19A
FWHM / FWTM 9.0° / 23.0°
Efficiency 88 %
Peak intensity 11.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



NICHIA

LED NCSxx19B
FWHM / FWTM 11.0° / 25.0°
Efficiency 85 %
Peak intensity 14.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



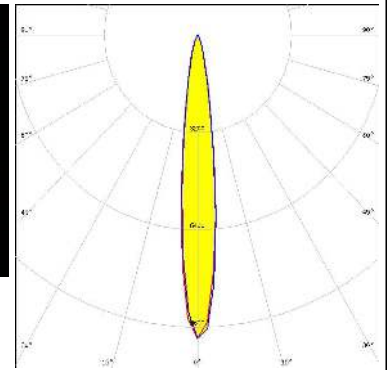
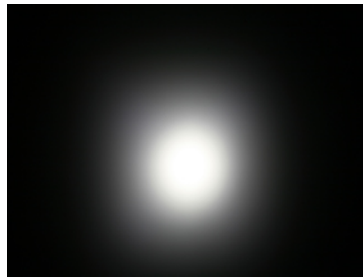
OPTICAL RESULTS (MEASURED):



LED NVSxx19A
FWHM / FWTM 12.0° / 29.0°
Efficiency 88 %
Peak intensity 8.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19B/NVSxx19C
FWHM / FWTM 14.0° / 30.0°
Efficiency 91 %
Peak intensity 10 cd/lm
LEDs/each optic 1
Light colour White
Required components:



Osram Semiconductors

LED OSLON Square EC
FWHM / FWTM 10.0° / 22.0°
Efficiency 90 %
Peak intensity 12.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



Osram Semiconductors

LED OSLON SSL 150
FWHM / FWTM 9.0° / 22.0°
Efficiency 92 %
Peak intensity 15 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OPTICAL RESULTS (MEASURED):

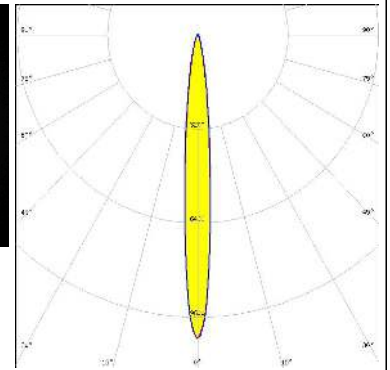
OSRAM

Opto Semiconductors

LED OSLON SSL 80
 FWHM / FWTM 7.0° / 19.0°
 Efficiency 89 %
 Peak intensity 19.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

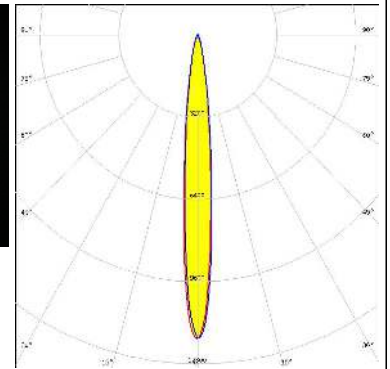
SAMSUNG

LED LH181A
 FWHM / FWTM 10.0° / 26.0°
 Efficiency 88 %
 Peak intensity 10 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



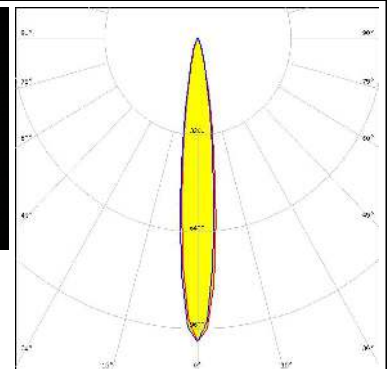
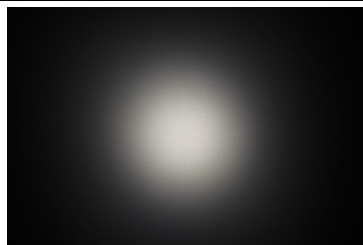
SAMSUNG

LED LH181B
 FWHM / FWTM 11.0° / 25.0°
 Efficiency 94 %
 Peak intensity 11.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

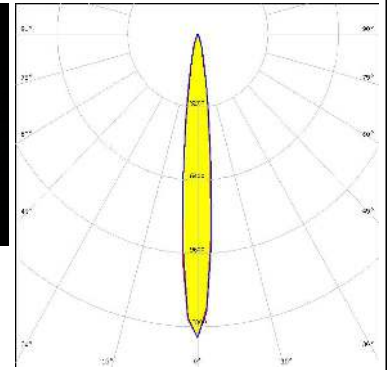
LED LH351B
 FWHM / FWTM 14.0° / 29.0°
 Efficiency 88 %
 Peak intensity 10 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

SAMSUNG

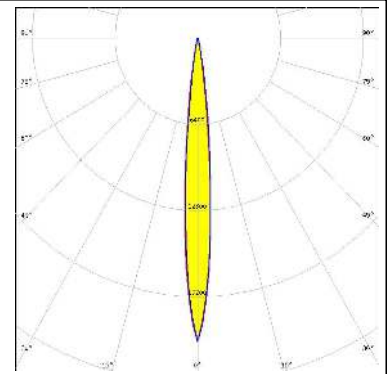
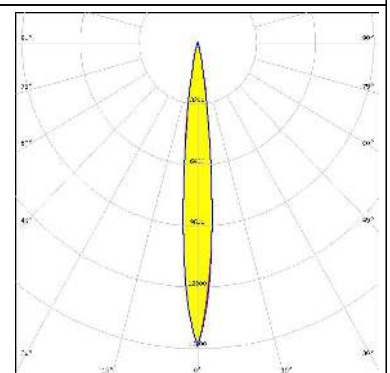
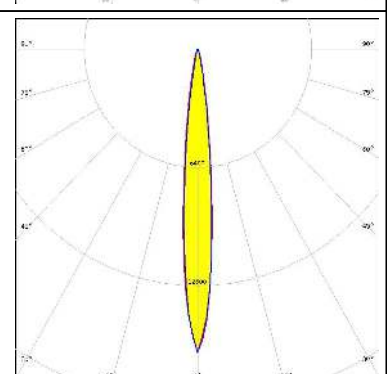
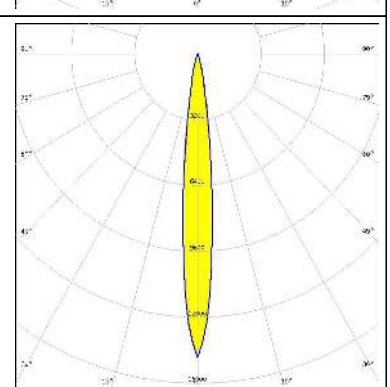
LED LH351Z
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 88 %
 Peak intensity 13.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SEOUL SEMICONDUCTOR

LED Z5
 FWHM / FWTM 8.0° / 20.0°
 Efficiency 87 %
 Peak intensity 22.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

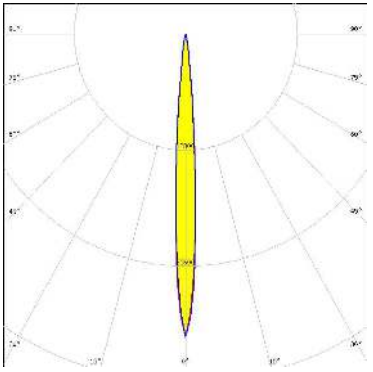
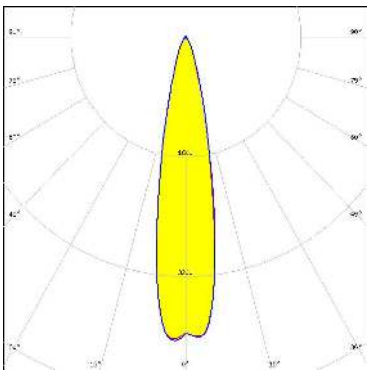
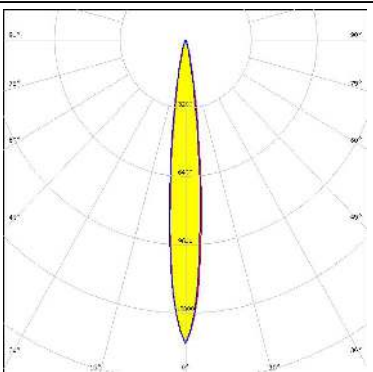
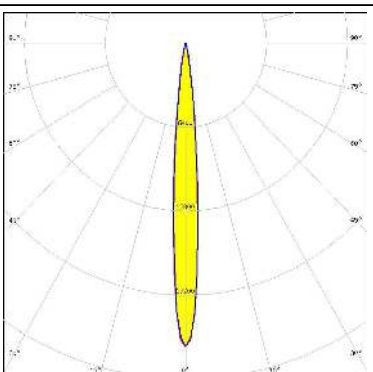
OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</p> <p>LED: XP-E2 FWHM / FWTM: 10.0° / 20.0° Efficiency: 96 % Peak intensity: 22.6 cd/lm LEDs/each optic: 1 Light colour: Green Required components:</p>	
<p>CREE → LED</p> <p>LED: XP-L HI FWHM / FWTM: 12.0° / 22.0° Efficiency: 96 % Peak intensity: 15.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON 3030 HV FWHM / FWTM: 11.0° / 23.0° Efficiency: 94 % Peak intensity: 16.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON HL2Z FWHM / FWTM: 12.0° / 24.0° Efficiency: 96 % Peak intensity: 14.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

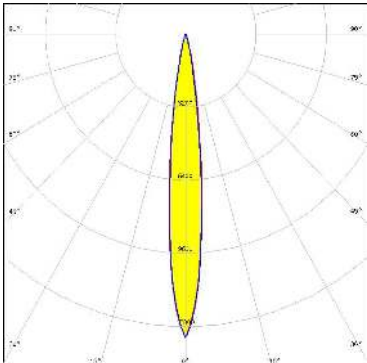
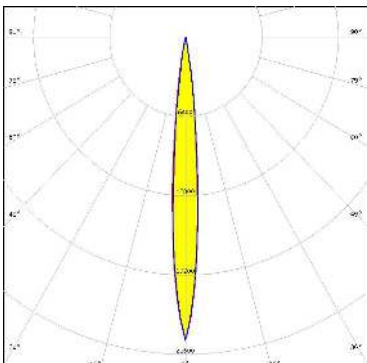
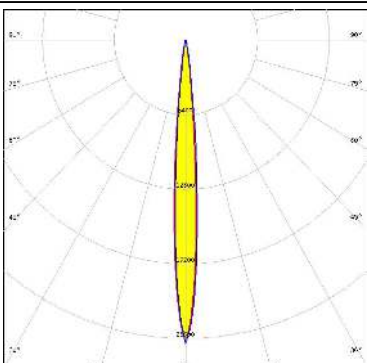
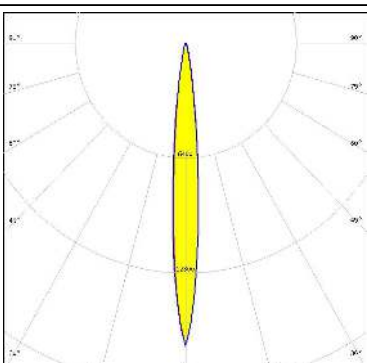
OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON Rubix</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 30.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Red</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON SunPlus 20 Line (120 deg)</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 26.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON SunPlus 20 Line (150 deg)</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 24.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON Z</p> <p>FWHM / FWTM 9.0° / 17.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 32.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 7.7° / 16.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 33.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED NCSxE17A</p> <p>FWHM / FWTM 22.0° / 42.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4.1 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S5 (Single chip)</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 14.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ P 3030</p> <p>FWHM / FWTM 9.4° / 20.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 23.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 13.0° / 26.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 13.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM SSL 150</p> <p>FWHM / FWTM 10.0° / 19.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 24.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Red</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4170S</p> <p>FWHM / FWTM 9.0° / 17.0°</p> <p>Efficiency 88 %</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>	
<p>SEOL SEOL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM / FWTM 10.0° / 22.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 17 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy

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Hong Kong, China

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